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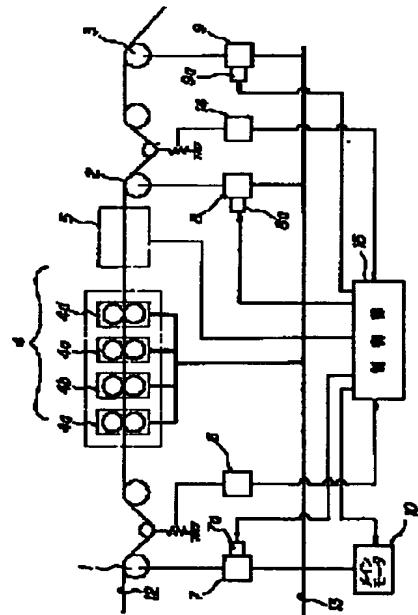
(54) CONTROL DEVICE OF COOLING ROLL IN WEB PRINTING PRESS

(57) Abstract:

PURPOSE: To provide the control device capable of stabilizing the running of a web in a low speed region.

CONSTITUTION: A control part 15 controls a motor 8a so that the tension value being the output signal of a tension sensor 8 becomes a preset tension value to control a gearbox 8. Further, the control part 15 performs the tension control of a cooling roll in a low speed rotary area in the slow moving mode and low speed mode of a printing part 4 and also performs the leading control of the cooling roll 2 in a high speed rotary area in a printing mode to stabilize the running of a web 12 in the low speed rotary area.

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(71) Applicant: **MITSUBISHI HEAVY IND LTD**

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(72) Inventor: **HARADA MASAHIRO
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(54) **DRYING-COOLING DEVICE OF PRINTING PAPER** float up the web 1 by the air pressure.

(57) Abstract:

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PURPOSE: To prevent a web of printing paper from having tensile creases while it passes through a horizontal section and blow away solvent and steam on the surface of the printing paper by arranging two or more floaters between a hot-air dryer and a cooling cylinder to make the printing paper undulate.

CONSTITUTION: A high-temperature web 1 is kept undulating by nozzles 4 while it is conveyed through a dryer 3, and its undulating traveling is continued by two or more floaters 5a, 5b and 5c of a floater unit 5, which are arranged just at the back of the exit of the dryer 3 and whose adjacent transfer surfaces face opposite to each other, until it is sent to a cooling cylinder 6 installed just at the back of the last floater 5c. After cooled, the web 1 is led to a folding device via a guide roller 7. Each of the floaters 5a, 5b and 5c includes a header 8 having a curved surface in which a large number of small holes 9 are perforated, and an air supply pipe 12 leading to a blower 11 is connected to a side face 10 of the header 8. Pressure air is fed to the header 8 through the air supply pipe 12 and blown on the web 1 through the small holes 9 to

